

ZOTOV, German Mikhaylovich; BORISOVA, K., red.; DARONYAN, M., mlad-shiy red.; NOGINA, N., tekhn. red.

[Retail trade in the United States] Roznichnaia torgovlia v SShA. Moskva, Izd-vo sotsial'no-ekon. lit-ry, 1961. 164 p.  
(United States--Retail trade)

(MIRA 15:2)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7

PAVLOVSKIY, V.; LEVKOVSKIY, A.I., kand. ekonom. nauk, red.; GARSIA,L.,  
red.; DARONYAN, M., mladshiy red.; MOSKVINA, R., tekhn. red.

[Economy of modern Thailand] Ekonomika sovremennoj Tailanda.  
Moskva, Izd-vo sotsial'no-ekon.lit-ry, 1961. 182 p.

(Thailand--Economic conditions)

(MIRA 15:2)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7"

NAZARENKO, Ivan Timofeyevich; ARAV, O., red.; AFANAS'YEV, V., red.;  
DARONYAN, M., mladshiy red.; CHEPELEVA, O., tekhn. red.

[Industrial accidents and workers' living standards in the  
U.S.A.] Proizvodstvennyi travmatizm i zhiznennyi uroven' tru-  
diashchikhsia SShA. Moskva, Izd-vo sotsial'no-ekon.lit-ry, 1961.  
216 p. (MIRA 15:2)

(United States--Industrial accidents)  
(United States--Labor and laboring classes)

KYMALOV, Viktor Vladimirovich; TYAGUNENKO, Viktor Leonidovich; ARZUMANYAN, A.A., otv. red.; MAKAROV, V., red.; DARONYAN, M., mladshiy red.; MOSKVINA, R., tekhn. red.

[Underdeveloped countries in the world capitalist economy] Slaborazvitye strany v mirovom kapitalisticheskem khoziaistve. Moskva, Izdvo sotsial'no-ekon. lit-ry, 1961. 494 p. (MIRA 14:12)

1. Chlen-korrespondent AN SSSR (for Arzumanyan).  
(Underdeveloped areas) (Economic conditions)

KUZNETSOV, Boris Petrovich; GARSIA, L., red.; DARONYAN, M., mladshiy  
red.; CHEPELEVA, O., tekhn. red.

[Against the bourgeois theories of the agrarian problem] Protiv  
burzhuaznykh kontseptsii po agrarnomu voprosu. Moskva, Sotsseksgiz,  
1962. 139 p.  
(Agriculture—Economic aspects)

BOZHDEDOMOV, Aleksandr Ivanovich; KOZODOYEV, I.I., prof., red.;  
GARSIA, L., red.; DARONYAN, M., mladshiy red.; KIRSANOV, I.,  
mladshiy red.; MOSKVINA, R., tekhn. red.

[Petroleum leases in capitalist countries] Neftianai renta v  
stranakh kapitalizma. Pod obshchei red. I.I.Kozodoeva. Moskva,  
Sotsekgiz, 1962. 337 p. (MIRA 15:7)  
(Oil and gas leases)

NIKITIN, Petr Ivanovich; ARAV, O., red.; BAKOVETSKIY, O., red.;  
DARONYAN, M., mladshiy red.; KOKOSHKINA, I., mladshiy red.;  
CHEPELEV, O., tekhn. red.

[Principles of economics; popular textbook] Osnovy politicheskoi ekonomii; populjarnyj uchebnik. 2., perer. i dop. izd.  
Moskva, Sotsekgiz, 1962. 398 p. (MIRA 15:8)  
(Economics)

KUZ'MINOV, Ivan Ivanovich, doktor ekon. nauk, zasl. deyatel' nauki  
RSFSR; MOROZOV, V., red.; DARONYAN, M., mladshiy red.;  
CHEPELEVA, O., tekhn. red.

[Postwar capitalist cycle] Poslevoennyi kapitalisticheskii  
tsikl. Moskva, Sotskgiz, 1962. 187 p. (MIRA 16:2)  
(Business cycles)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7

YUDANOV, Yuriy Ignat'yevich; MOROZOV, V., red.; DARONYAN, M., mlad-shiy red.; ULANOVA, L., tekhn. red.

[The struggle for markets in Western Europe] Bor'ba za rynki v Zapadnoi Evrope. Moskva, Sotskgiz, 1962. 86 p.

(MIRA 16:1)

(Europe, Western—Commerce)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7"

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7

AFANAS'YEV, Lev Aleksandrovich; GARSIA, L., red.; DARONYAN, M.,  
mladshiy red.; KORNILOVA, V., tekhn. red.

[Agrarian overpopulation] Agrarnoe perenасelenie. Moskva,  
Sotskgiz, 1963. 298 p. (MIRA 16:6)  
(Agriculture—Economic aspects)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7"

AZAROVA, M.M., kand. ekon. nauk, dots.; BAUTINA, N.V., kand. ekon. nauk, dots.; DOBRUSHIN, I.M., kand. ekon. nauk; MAKHON'KO, T.P., kand. ekon. nauk, dots.; TOLYPIN, Yu.M., kand. ekon. nauk, dots.; KOZODOYEV, I.I., doktor ekon.nauk, prof., red.; GARSIA, L., red.; MITINA, M., red.; DARONYAN, M., mladshiy red.; KRYLOVA, I., mladshiy red.; NOGINA, N., tekhn. red.

[Chrestomathy in economics] Khrestomatiia po politicheskoi ekonomii. 2., perer. i dop. izd. Moskva, Sotsekgiz, 1963.  
798 p. (MIRA 16:4)

(Economics)

LYUBIMOVA, V.V., doktor ekon. nauk; NOVIKOVA, O.G., kand. ekon. nauk;  
SERGEYEVA, A.G., kand. ekon. nauk; IVANOV, N.P., kand. istor.  
nauk; OBORINA, G.A., kand. ekon. nauk; KHLINOV, V.N., kand.  
ekon. nauk; DANILEVICH, M.V., doktor ekon. nauk; POKATAYEVA,  
T.S., kand. ekon. nauk; USOV, G.A., kand. ist. nauk;  
SAL'KOVSKIY, O.V., kand. geogr. nauk. Prinimali uchastiye:  
PESCHANSKIY, V.V., kand. ist. nauk; PIROGOVA, I.M.; PRONIN,  
S.V.; USVYATSOV, A.Ye.; MAKAROV, V., red.; DARONYAN, M.,  
mladshiy red.; ULANOVA, L., tekhn. red.

[Real wages during the period of the general crisis of capitalism]  
Real'naia zarabotnaia plata v period obshchego krizisa  
kapitalizma. Moskva, Sotsekgiz, 1962. 558 p. (MIRA 16:3)

1. Akademiya nauk SSSR. Institut mirovoy ekonomiki i mezhdu-  
narodnykh otnosheniy.

(Wages)

PUSHEV, G.; RUMYANTSEV, A.M., red.; KULAGIN, N., red.; GARSIA, L., red.;  
DARONYAN, M., mladshiy red.; NOGINA, N., tekhn. red.

[Agrarian question and the national liberation movement;  
materials of a discussion of Marxist agrarians held in  
Havana and Bucharest in July-September, 1960] Agrarnyi vopros  
i natsional'no-osvoboditel'noye dvizhenie; materialy obmena  
mneniiami marksistov-agrarnikov, sostoiavshegosia v iiule-  
sentiabre, 1960 g. v Gavane i Bukhareste. Pod obshchei red.  
A.M. Rumiantseva. Moskva, Sotsekgiz, 1963. 531 p. (MIRA 16:6)

1. Chlen-korrespondent AN SSSR (for Rumyantsev).  
(Underdeveloped areas-- Land tenure)

CHUNTYZHEV, Kh.O.; PRONIN, S.V.; LISOVSKIY, Yu.P.; MARTYNOV, V.D.;  
MARKARYAN, S.B.; FARIZOV, I.O.; ALEKSANDROVSKAYA, L.I.;  
USOV, G.A.; TIMUR, M.; YURLOV, P.F.; AFANAS'IEV, L.A.,  
otv. red.; GARSIA, L., red.; DARONYAN, M., mladshiy red.;  
NOGINA, N., tekhn. red.

[Agricultural cooperation under the conditions of capitalism]  
Sel'skokhoziaistvennaya kooperatsiya v usloviakh kapitalizma.  
Moskva, Sotskgiz, 1963. 350 p. (MIRA 16:9)

1. Akademiya nauk SSSR. Institut mirovoy ekonomiki i mezhdu-narodnykh otnosheniy.  
(Agriculture, Cooperative) (Capitalism)

KOVALEV, N.G.; ZMEYEV, A.A.; LUKIN, Ye.I.; FADINA, G.I.; KATIN,  
V.K.; SYSHCHIKOV, Yu.T.; VLASOV, A.V.; KARPOV, I.N.;  
ASTAKHOV, A.S.; DARONYAN, M., red.; MOSKVINA, R., tekhn.  
red.

[Africa in figures; a statistical manual] Afrika v tsif-  
rakh; statisticheskii spravochnik. Moskva, Sotskgiz,  
1963. 566 p. (MIRA 16:11)

(Africa--Statistics)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7

MOLCHANOV, Gennadiy Pavlovich; GARSIA, L., red.; DARONYAN, M.,  
mild. red.

[U.S.S.R.] Tselion. Moskva, Izd-vo "Mysl", 1964. 155 p.  
(MIRA 17:5)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7"

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7

GORKIN, Petr Naumovich; DARONYAN, M.I., red.; MELENT'YEV, A.M., tekhn.red.

[Tables of percentage computations] Tablitsy protsentnykh vychislenii.  
Moskva, Gos.stat.iad-vo, 1958. 307 p. (MIRA 12:12)  
(Percentage--Tables and ready-reckoners)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7"

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7

DARONYAN, S.; KRUPCHANOV, L.

Award of the M.V.Lomonosov prizes for 1953. Vest.Mosk.un.8 no.9:171 S '53.  
(MLRA 6:11)  
(Moscow University--Prizes)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7"

BACHO, Y. [Bacso, J.]; CHIKAI, Yu. [Csikai, Gy.]; DAROTSI, A.  
[Daroczy, A.]

Studies on the energy dependence of the cross-cut ratios  
of isomers. ATOMKI kozl 5 no. 3/4 1-8 D '63.

1. Institut yadernykh issledovaniy Vengersvoi AN,  
Debretsen [Debrecen].

BIEGANOWSKA, Zofia; DAROSZEWSKA, Irena; KOSTRZEWSKI, Marian

Indications for the therapy of giant cell tumours. Ann. Univ.  
Lublin sect. D 19:311-320 '64.

1. Katedra i Zaklad Radiologii, Wydzial Lekarski AM w Lublinie  
(Kierownik: doc. dr. med. Kazimierz Skorzynski).

DAROV, I.

"Theory of Ch. Darwin and the Russian agricultural literature  
from 1860 to 1870" by S.M. Zelikina. Agrobiologija no.5:795-796  
S-O '60. (MIRA 13:10)

(Darwin, Charles Robert, 1809-1882)  
(Agricultural research)

69251

SOV/112-59-17-36646

9.4/20

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 17, p 118 (USSR)

AUTHOR: Darov, Ye.T.

TITLE: The Use of Cold Cathode Thyratrons in Photorelay Circuits/

PERIODICAL: Tr. Sektsii provodn. svyazi, Ukr. resp. pravl. Nauchno-tekh. o-va radio-tekh. i elekrosvyazi, 1958, Nr 3, pp 96-99

ABSTRACT: Photorelay circuits on cadmium sulfide photoresistances or germanium photodiodes with the use of cold cathode thyratrons of MTKh-90 type are discussed. Calculation formulae for choosing photorelay circuits responding during illumination or darkening are given. The given photorelay circuits are built up on few elements and consume current only in the case when the photorelay is functioning. There are 4 illustrations and 3 references.

V.Ye.Kh.

Card 1/1

ACC NR: AT7004478

SOURCE CODE: UR/3245/66/000/002/0108/0110

AUTHOR: Darov, Ye. T.

ORG: Kiev Institute of Automation (Kiyevskiy institut avtomatiki)

TITLE: A printing device with the EUM-23

SOURCE: Kharkov. Institut gornogo mashinostroyeniya, avtomatiki i vychislitel'noy tekhniki. Pribory i sistemy avtomatiki, no. 2, 1966. Promyshlennaya telemekhanika (Industrial telemechanics), 108-110

TOPIC TAGS: printing machinery, digital decoder, digital system, computer component, computer output unit/ EUM-23 printing machinery, control circuit,

ABSTRACT: This article describes the working principle of a digital printing device with the electronically controlled printing machine EUM-23, with functional diagrams of its separate elements built into unified modules. The printer consists of length register with decoders of duodecimal code into decimal, a device for printer control, and power amplifiers to the EUM-23 solenoids. The printer control device includes an auto-oscillatory multivibrator of strokes  $MV_T$ ; a stroke counter of three triggers T-2, T-3, and T-4 (see Fig. 1), a decoder DSh<sub>T</sub>, a printer trigger T-1, and a standby multivibrator  $MV_{zh}$ . A detailed description of the decoder mechanisms and circuit is

Card 1/2

ACC NR: AT7004478

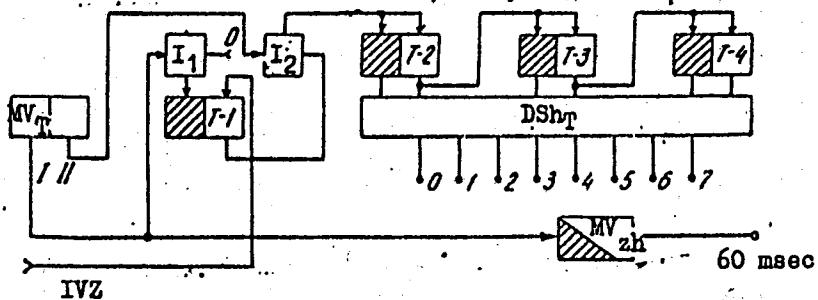


Fig. 1. Printer control device for the digital printer

given, and a step-by-step sequencing of the printer operation is presented with the circuit schematic. The system is claimed to be more reliable than its predecessors, capable of prolonged continuous usage, and inexpensive in terms of expenditure for logic elements. Orig. art. has: 2 figures.

SUB CODE: 09/ SUBM DATE: none

Card 2/2

USSR/Cultivated Plants - Fruits. Berries.

M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15784

Author : A.T. Darova

Inst : Kishinev Agricultural Institute

Title : The Receptivity of the Stigma of Korna Nyagra Grapes to Pollen.  
(Vospriimchivost' ryl'tsa Korna nyagra k pyl'tse).

Orig Pub : Sadovodstvo vinogradarstvo i vinodeliye Moldavii, 1956,  
No 2, 35-36.

Abstract : Resulting from tests made at the Kishinev University it has been established that the stigma is receptive most of all to pollen two to three days before large-scale flowering and during the period when it goes through this.

Card 1/1

145

DAROVA, A.T.

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7

USSR/Cultivated Plants. Fruits. Berries.

Abs Jour: Ref Zhur-Biol, No 5, 1958, 20521.

Author : L.V. Kolesnik, A.T. Darova

Inst : Kishinev Agricultural Institute

Title : The Hamburg Muscadine, the Best Pollinator for the Korna Nyagra and Chasselas (Muskat gamburgskiy--luchshiy opylitel' dlya Korna nyagra i Shasla).

Orig Pub: Sadovodstvo, vinogradarstvo i vinodeliye Moldavii, 1956,  
No 4, 38-39.

Abstract: At the biological station of Kishinev University and at the training farm of the agricultural institute, large bunches with sizable enough grapes and the very best yielding capacity were obtained through pollinating the Korna Nyagra grape variety with pollen of the Hamburg Muscadine. This may be explained by the fact

Card : 1/2

USSR/Cultivated Plants - Fruits & Berries.

M.

Abs Jour : Ref Zhur = Biol., No 4, 1958, 15785

Author : A.T. Darova

Inst

Title : Pollen As a Sexual Mentor.  
(Pyl'tsa kak polovoy mentor).

Orig Pub : Sadovodstvo, vinogradarstvo i vinodeliye Moldavii, 1956,  
No 6, 30-32.

Abstract : Seven sexual mentors were tried out on the Aligote variety with two controls: an isolated self-pollination and a natural self-pollination. The Aligote reacted differently to the pollen of the pollinating varieties: the Cabernet pollen as a mentor more than doubled the fruit set and caused a considerable increase in the average weight of the grapes; Muscatel pollen on the other hand lowered the percentage of setting and the grape size, and the pollen of the Pinot gris did

Card 1/2

USSR/Cultivated Plants - Fruits. Berries.

M

Abs Jour : Ref Zhur Biol., No 12, 1958, 53822

Author : Kolesnik, L.V., Barova, A.T.

Inst :  
Title : Alien Pollen as a Mentor in Grape Pollination

Orig Pub : Sadovodstvo, vinogradarstvo i vinodeliye, 1957, No 4,  
28-30

Abstract : This is a study of the role of alien pollen of 33 plants  
- wild growing grasses, shrubs, trees, flowers - in the  
process of the fertilization of the Chasselas grape plant.  
The inflorescences from self-pollination and free polli-  
nation served as the control. In the case of self-pollini-  
tion in the presence of the pollen of the yellow locust  
(Robinia pseudo-acacia), the average weight of the berry  
increased to 3.1 g (control - 2.0-2.02 g). The inflores-  
cences pollinated with the pollen of dandelion, formed  
firm clusters with large berries, while nettle gave the

Card 1/2

APPROVED FOR RELEASE: 08/25/2000

USSR/Cultivated Plants. Berries.

M

CIA-RDP86-00513R000509720010-7"

Abs Jour : Ref Zhur Biol., No 12, 1958, 53822

berries a rose tint. The pollen of the tulip, linden  
and of hemlock produced negative results. -- P.Kh. Kis-  
kin

Card 2/2

DAROVA, A. T. Cand Agr Sci -- "Role of foreign pollen in the process of pollination  
of grapes and methods of controlling ~~the fall of the flower~~ (Data on the  
experimental work ~~in the period~~ 1949-1958)." Odessa, 1960 (Min of Agr UkrSSR.  
Odessa Agr Inst). (KL, 1-61, 200)

EWIT(4)/EWI(2)/EBC-4/EBC(t) Pn-4/Pd-4/Pac-1

卷之三

TELEGRAM 65-1000/010/0041/0041

Зразhevский, С. П.; Копр., В. М.; Георгиевник, Н. П.

System for measuring the duration and number of the intervals between successive events. Class 21, No. 171023

by staten' izobreteny i tovarnykh znakov.

The mean percent frequency distribution of the species of birds seen by the students at the three sites was as follows:

**AM**  
A proposed measuring device converts the signal to be investigated to a frequency to a region of higher frequencies and uses a filter to eliminate noise. The signal is then processed by a digital computer which is also able to retain information from previous calculations. The computer is used to analyze pulse repetition rates and the time interval between successive pulses. The output of the computer is displayed on a cathode ray tube.

Card 1 / 2

7-74-AE  
A-1961-14-NP: APS016723

19. 11. 2014 - Výroba akrylových dekorací (tafelrahmen) včetně výroby dekorací vytvořených na zakázku

二、五·一四

三

ACT PREP 403K

Card 2/2

1. 09332-67 ENT(1)/EXP(1) IJP(c) CG/BB  
ACC NR: AP6029524

SOURCE CODE: UR/0432/66/000/004/0062/0062

41

AUTHOR: Bobroshov, Yo. N.; Darova, P. I.; Ponomarenko, V. A.; Serjovoy, I. V.

ORG: None

TITLE: A computer distribution loop system with binary cells

SOURCE: Mekhanizatsiya i avtomatizatsiya upravleniya, no. 4, 1966, 62

TOPIC TAGS: computer circuit, computer control system, circuit design, flip flop circuit, transistorized circuit

ABSTRACT: A computer distribution system with a scaling factor twice higher than the number of cells is described with the help of a circuit diagram. It is mentioned that an application, No. 943983/26-24, for a patent covering this arrangement was presented by P. I. Darova. The system shown in a diagram consists of three flip-flop circuits having a scaling factor equal to 6. The system operates by using transistors for consecutive switching of pulses to the corresponding coincidence output units. The interconnecting operation of three flip-flop circuits are briefly explained. It is expected that the proposed system will find a wide application in designing various distributing, coding and decoding arrangements. Orig. art. has: 1 diagram.

SUB CODE: 09/ SUBM DATE: None/ ORIG REF: 003

Card 1/1/1

UDC: 621.374.3

ACC NR: AP6032516

SOURCE CODE: UR/0413/66/000/017/0090/0091

INVENTOR: Darova, P. I.

ORG: none

TITLE: Counting and distributing ring device. Class 42, No. 185552 [announced by the Kiev Branch of the Scientific Research Institute of Communications (Kiyevskoye otdeleniye nauchno-issledovatel'skogo instituta svyazi)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 17, 1966,  
90-91

TOPIC TAGS: coincidence circuit, trigger circuit, counting distributing ring  
device

ABSTRACT: The proposed counting and distributing ring device contains a trigger and coincidence circuits. The sealing factor or the latter is two times larger than the number of triggers. To simplify the device and prevent the recording of a false ONE, the coincidence circuits from the second to the  $(n-1)$  ( $n$  is the number of triggers) are connected to the ZERO outputs of the preceding, and the ONE outputs of the subsequent, triggers. From  $(n + 1)$  to  $(2n-1)$ , the coincidence circuits are

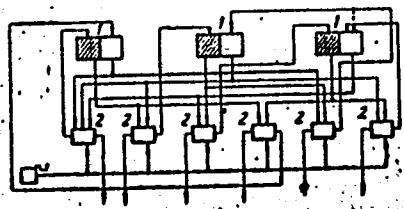
Card 1/2

UDC: 661.142.07

ACC NR: AP6032516

connected to the ONE outputs of the preceding and the ZERO outputs of the subsequent triggers. The n coincidence circuit is connected to the ZERO outputs of the first and last triggers. The ONE outputs of all the triggers are introduced in the coincidence circuit which controls the operation of the first trigger. The outputs of the coincidence circuits are those of the device. Orig. art. has: 1 figure.  
[Translation]

Fig. 1. Counting and distributing ring device.  
1—Triggers; 2—coincidence circuits



SUB CODE: 09 / SUBM DATE: 23Feb65/  
Card 2/2

DAROVSKAYA, M.G., assistant

Immediate and late results of the surgical and combined methods of  
treating cancer of the corpus uteri. Sbor. nauch. rab. Kaf. akush.  
i gin. GMI no.2:78-82 '60. (MIRA 15:4)

1. Iz kafedry akusherskogo i ginekologii pediatricheskogo fakul'teta  
Gor'kovskogo meditsinskogo instituta im. S.M.Kirova, (zaveduyushchiy  
kafedroy doktor med.nauk S.S.Dobrotin).  
(UTERUS—CANCER)

DAROVSKAYA, M.G.

Clinical aspects and diagnosis of cancer of the corpus uteri. Sbor.  
nauch. rab. Kaf. akush. i gin. GMI no.2:83-85 '60. (MIRA 15:4)

1. Iz kliniki akusherstva i ginekologii pediatriceskogo fakul'teta  
(zav.kafedroy - doktor med.nauk S.S.Dobrotin) Gor'kovskogo meditsinskogo  
instituta im. S.M.Kirova.

(UTERUS—CANCER)

DAROVSKAYA, M.G., assistant

Clinical aspects and diagnosis of internal endometriosis. Sbor.nauch.  
rab. Kaf. akush. i gin. GMI no.1:156-162 '60. (MIRA 15:4)

1. Iz kafedry akusherstva i ginekologii pediatriceskogo fakul'teta  
Gor'kovskogo gosudarstvennogo meditsinskogo instituta.  
(ENDOMETRIOSIS)

DAROVSKAYA, M.G., assistant

Endometriosis in the postoperative scar. Sbor.nauch. rab. Kaf. akush.  
i gin. GMI no.1:163-166 '60. (MIR 15:4)

1. Iz kafedry akusherstva i ginekologii pediatriceskogo fakul'teta  
Gor'kovskogo gos.meditinskogo instituta.  
(ENDOMETRIOSIS)

DAROVSKAYA, N. G.

"Data on the Biology and Food of Migratory Birds of the Valley of the Lower Course of the Unzha River and Their Useful Activity." Cand Biol Sci, Gor'kiy U, Gor'kiy, 1954. (RZhBiol, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (13) SO: Sum. 598, 29 Jul 55

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7

BEZBOROD'KO, M.D.; DAROVSKIKH, A.A.

Evaluation of the resistance of lubricating materials in reducers  
at low temperatures. Khim. i tekhn. topl. i masel. 6 no.10:43-  
47 O '61. (MIRA 14:11)

(Lubrication and lubricants)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7"

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7

DAROVSKIKH, G.T.; ANDREYEVSKIY, D.N.; ZHAVORONOK, S.G.

Ethers of dimethylphenyl-p-cresol and their utilization.  
Khim. prom. no.4:261-263 Ap '63. (MIRA 16:8)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7"

34133  
S/138/62/000/002/004/009  
A051/A126

15.9300

AUTHORS: Darovskikh, G.T., Kusov, A.B.

TITLE: Investigation of the interrelation between the indices of equilibrium and non-equilibrium expansion deformation in vulcanizates

PERIODICAL: Kauchuk i rezina, no. 2, 1962, 15 - 16

TEXT: The quantitative relation between the initial (non-equilibrium) and equilibrium tensions in expansion deformation of rubber is established. This relation serves to judge the equilibrium properties of vulcanizates according to data of standard physico-mechanical tests and facilitates the calculations of rubber articles, working under conditions of expansion. It eliminates the need to determine experimentally the equilibrium standard for characterizing the thickness of the vulcanization lattice. The initial non-equilibrium ( $\sigma_0$ ) and conditional-equilibrium ( $\sigma_{\infty}$ ) tensions, produced after 3 days of static deformation at room temperature were compared in the following rubbers: natural, chloroprene, sodium-butadiene, silicon, butyl, butadiene-styrene, butadiene-nitrile. A simple interrelation between  $\sigma_{\infty}$  and  $\sigma_0$  was found for these rubbers, i.e.,  $\sigma_{\infty} = a \sigma_0$ ; where  $a$  — the proportionality coefficient — is the tangent  $\checkmark$

Card 1/2

34133

S/138/62/000/002/004/009

A051/A126

Investigation of the interrelation between ....

of the angle of decline to the axis of non-equilibrium tensions, equalling from 0.5 to 0.8. In expansion deformation, the relation between  $\sigma_{\infty}$  and  $\sigma_0$  at room temperature, to an expansion of 0.7 L is expressed by  $\sigma_{\infty} = a \sigma_0$ , and at 70°C by  $\sigma_{\infty 700} = a \sigma_0 - b \sigma_0^2$ . In calculating the rubber articles working under static expansion deformation, the following equation is recommended:  $\sigma_{\infty} = 0.65 \sigma_0$ . The function  $f(\sigma_0) = \sigma_1/\sigma_{\infty}$ , characterizing the relative section of the physical and chemical relation under the given conditions of deformation, is found. Experimental data showed that even in wide expansions at 70°C the thickness of the vulcanization lattice does not change considerably. Under selected conditions of deformation, a physical process takes place which is primarily that of chain molecule regrouping. There is 1 table, 2 figures and 2 Soviet-block references.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut im. Mossoveta (Leningrad Institute of Technology im. Mossoviet)

Card 2/2

DAROVSKIKH, G.T.; KUSOV, A.B.

Investigating the relationship between the equiponderant and static  
stresses in the stretch elongation and compression of rubbers.  
Kauch. i rez. 22 no.5:28-30 My '63. (MIRA 16:7)

1. Leningradskiy tekhnologicheskiy institut im. Lensoveta.  
(Rubber—Testing) (Strains and stresses)

DAROVSKIKH, G.T.; KUSOV, A.B.; KRIVOKHINA, I.G.

Studying the effect of the formula on the relaxation properties  
of rubber. Kauch. i rez. 22 no.8:12-14 Ag '63. (MIRA 16:10)

1. Leningradskiy tekhnologicheskiy institut im. Lensoveta.

DAROVSKIKH, G.T.; TROFIMOV, G.A.

Improved methodology for rubber bromination. Kauch. i rez. 22 no.  
11:49-50 N '63. (MIRA 17:2)

1. Leningradskiy tekhnologicheskiy institut im. Lensoveta.

1 57031-45 EWT(6)/EPF(6)/EMT(5) -> Fe-Li/Fn-4 EWT  
1 57031-45 EWT(6)/EPF(6)/EMT(5) -> Fe-Li/Fn-4 EWT

Digitized by srujanika@gmail.com

<sup>1</sup> The author would like to thank the anonymous referees for their useful comments.

Journal of Marine, Vol. 5, 1943, 35-40

With rubber, stress measurement, vulcanization, and temperature less than 300 °C, the shear modulus,  $G$ , is given by,  $G = \frac{F}{A} \cdot \frac{L}{\delta}$ .

117. Static and equilibrium stresses are generally related linearly by a  
stiffness factor  $n$ , and the value of  $n$  is often used as a measure of the  
material's stiffness. In the present work, the effect of temperature on the  
stiffness factor was investigated. The results are shown in Figure 117.  
The effect may be evaluated as follows:  
At a given physical condition, the stiffness factor is  
approximately as follows: chemical, 0.15;  
separation of destructive processes, 0.25;  
and thermal effect on changing the temperature, 0.15.  
factor in the zone of strong stretching. Tests were made in one-, one-half,

Card 1/2

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7"

L 57084-65

ACCESSION NR: AP5013735

2

BR-3C, and neoprene rubber, with similar results. It was concluded that the main factors affecting the limits of proportionality between the acting stresses appear to be the structure of the rubber and the degree of vulcanization. Orig. art. has: 3 figures and 2 tables.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut im. Lensoveta (Leningrad Technical Institute)

SUBMITTED: OO

ENCL: OO

SUB CODE: MT, OC

NO R.F. SOV: 005

OTHER: 000

Card 2/2

DAROVSKIKH, L.N. (Akhtubinsk)

Determination of a frequency characteristic using the computing stages  
of an electronic calculating machine [with summary in English]. Avtom.  
i telem. 23 no.2:244-247 F '62. (MIRA 15:2)  
(Automatic control)(Electronic calculating machines)

DAROVSKIKH, L.N. (Akhtuinsk)

Semigraphical method for determining the transfer function of an  
automatic control system using a given transient function. Avtom.  
i telem. 23 no.6:841-843 Je '62. (MIRA 15:6)  
(Automatic control)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7

DAROVSKIKH, N.

NEFEDOV, N.; DAROVSKIKH, N.

Prospecting at the Dzhida tungsten deposit and geology's contribution.  
Sov. geol. no.53:69-79 '56. (MLRA 10:4)  
(Dzhida valley--Tungsten ores)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7"

DAROVSKIIH, V.

Decompressors for the IMAZ-204 engines. Avt.transp. 37 no.3:52  
Mr '59. (MIRA 12:4)  
(Gas and oil engines--Ignition)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7

PERFILOV, N. A., PROKOFIEVA, E. I., NOVIKOVA, N. R., LOZHKNIN, OV., DAROVSKIKH, V. F.,  
And DENISENKO, G. F. (Institut du Radium, Leningrad, USSR)

"Sur Les Principes de Préparation d'éémusions à grains très Fins Pour Les  
Recherches Nucléaires et Leurs Propriétés."

paper presented at Program of the Second International Colloquium on Corpuscular  
Photography. Montreal, 21 Aug - 7 Sep 1958.

Encl: B-3, 114, 657.

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7"

21(7)

SOV/56-36-3-2/71

AUTHORS: Darovskikh, V. F., Perfilov, N. A.TITLE: The Peculiar Features of Bi-Nuclear Fission at Very High  
Excitation Energies (Osobennosti deleniya yader Bi pri ochen'  
bol'shikh energiyakh vozbuzhdeniya)PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959,  
Vol 36, Nr 3, pp 652-657 (USSR)ABSTRACT: In the introduction, the authors discuss a number of papers  
dealing with the mass- and charge distribution of fission  
products. In the present paper the authors report on investi-  
gations of fission processes on Bi-nuclei carried out by  
means of nuclear emulsions of the type P-9, which had been  
treated with a bismuth salt solution. These solutions were  
subjected to the action of 660 Mev protons on the synchro-  
cyclotron of the OIYaI (Ob"yedinennyi institut yadernykh iss-  
ledovaniy - Joint Institute of Nuclear Research). The plates  
were microscopically evaluated. Investigations were carried  
out for the purpose of determining the relative yields for  
Bi-fission and also their dependence on the ratio of ranges  
of light and heavy fission fragments  $l_1/l_h$  for various nuclear

Card 1/3

SOV/56-36-3-2/71

The Peculiar Features of Bi-Nuclear Fission at Very High Excitation Energies

groups involving different excitation energies. Figure 1 shows six characteristic diagrams (fission yield  $n : l_1/l_h$ ) for 0, 1, 2, 3, 4, 5, 6 and more charged particles, the mean error amounting to  $\Delta(l_1/l_h) = 0.1 l_1/l_h$ . Figure 2 shows the connection between the average total range of the fission fragments  $\bar{l} = l_1 + l_h$  of  $l_1/l_h$  for from 0 to 5 charged particles, and, for comparison, the corresponding diagram of a U-fission by thermal neutrons. Whereas the U-fission curves show a monotonous course, this is not the case with Bi-fission curves. The diagrams are discussed in detail. For 0, 1, 2, 3 charged particles the  $l$ -maximum is near a range asymmetry of 1.52; the diagram for 4 and 5 emitted particles shows a second maximum in the range of  $l_1/l_h = 1.82$ . Finally, the formulae

$$l_1/l_h = (z_h/z_1)^{2/3} \quad f(z_h, z_1)$$

$$\text{with } f(z_h, z_1) = [3(2z_h^{1/3})^{-1/3} + (2z_h^{1/3})^{-1}] / [3(2z_1^{1/3})^{-1/3} + (2z_1^{1/3})^{-1}]$$

Card 2/3

SOV/56-36-3-2/71

The Peculiar Features of Bi-Nuclear Fission at Very High Excitation Energies

$$\text{and } l_1/l_h = 1.1(z_h/z_1)^{2/3} f(z_h, z_1)$$

are discussed, and the attempt is made to explain experimental results on the basis of the shell structure of product nuclei. There are 2 figures and 16 references, 7 of which are Soviet.

ASSOCIATION: Radiyevyy institut Akademii nauk SSSR  
(Radium Institute of the Academy of Sciences, USSR)

SUBMITTED: June 28, 1958

Card 3/3

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7

PERFILOV, N.A.; PROKOF'YEVA, Ye.I.; NOVIKOVA, N.R.; LOZHKN, O.V.;  
DAROVSKIKH, V.F.; DENISENKO, G.F.

Manufacturing principle and properties of extra-fine grain  
emulsions for nuclear investigations. Zhur.nauch.i prikl.fot.  
i kin. 5 no.4:262-273 J1-Ag '60. (MIRA 13:8)

1. Radiyevyy institut im. V.G.Khlopina AN SSSR.  
(Photographic emulsions)  
(Photography, Particle track)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7"

82410

S/056/60/038/03/08/033  
B006/B014

24.6600

AUTHORS: Perfilov, N. A., Darovskikh, V. F., Danisenko, G. F.,  
Obukhov, A. I.

TITLE: Fission of Uranium Nuclei Induced by 9-Bev ProtonsPERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,  
Vol. 38, No. 3, pp. 716-718

TEXT: In the article under consideration, the authors bombarded nuclear emulsions of the type P-9Ch containing naturally-occurring uranium with 9-Bev protons on the proton synchrotron of the OIYaI. When evaluating the plates the authors selected only such events in which two tracks occurred in addition to the tracks of light-charged particles (usually protons or alpha particles); tracks of fission fragments induced by thermal neutrons corresponded to the blackening intensity of these. The range ratio of light and heavy fragments was  $L_1/L_H < 2$ . The authors confined themselves to such cases in which a considerable fragmentation admixture was observable at  $L_1/L_H > 2$ . Altogether, 1,042 such stars were recorded. The fission cross section was  $\times$

Card 1/3

82412

Fission of Uranium Nuclei Induced by  
9-Bev Protons

S/056/60/038/03/08/033  
B006/B014

calculated from the formula  $\sigma_f = N_f / N_{\text{nucl}} N_p$ , where  $N_f$  denotes the number of fissions found per  $\text{cm}^3$ ,  $N_{\text{nucl}}$  the number of uranium nuclei per  $\text{cm}^3$ , and  $N_p$  the proton flux. It was found that  $\sigma_f = (1.3 \pm 0.4)$  barns. When 9-Bev protons interact with the nuclei of the emulsion secondaries with  $E < 9$  Bev occur which make some contribution to the cross section. This background is considered to be  $\sim 30\%$ , so that the true value of  $\sigma_f$  is likely to be  $\approx 0.9$  barn. The mass ratio of fragments may be calculated from the value  $L_1/L_h$ . Fig. 1 shows the distribution of the fission events, which were accompanied by the departure of charged particles, as dependent on  $L_1/L_h$ . Hence it follows that fissions with a mass ratio of the fragments of almost unity are the most probable. Fig. 2 shows the dependence of the sum of average range of the fragments on  $L_1/L_h$ . The distribution exhibits three peaks. The results obtained by studying the angular distribution of the said fragments are also given. The ratio between the particle number in two angular ranges,  $N(0-30^\circ)/N(60-90^\circ)$  was  $1.07 \pm 0.11$ , i.e., the distribution was isotropic

Card 2/3

8241C

Fission of Uranium Nuclei Induced by  
9-Bev Protons

S/056/60/038/03/08/033  
B006/BQ14

within the statistical limits of error. The distribution of the fission events according to the number of the accompanying "black" prongs is illustrated in Fig. 3. It was found that  $\bar{n}_{\alpha p} = 3.82$ , while  $\bar{n}_{\alpha p} = 1.16$  at 660 Mev. In conclusion, the authors thank the team of the laboratoriya vysokikh energiy OIYaI (High-energy Laboratory of the Joint Institute of Nuclear Research) for their assistance in carrying out the bombardment. There are 3 figures and 5 Soviet references.

ASSOCIATION: Radiyevyy institut Akademii nauk SSSR (Radium Institute of the Academy of Sciences, USSR)

SUBMITTED: September 10, 1959

Card 3/3

DAROVSKIKH, V.F.; MAKAROV, M.M.; OSTROUMOV, V.I.

Observation of the decay of a  $B_3^0$  nucleus in a nuclear emulsion.  
Dokl. AN SSSR 141 no.3:593-594 N '61. (MIRA 14:11)

1. Radiyevyy institut im. V.G. Khlopina AN SSSR. Predstavлено  
академиком B.P. Konstantinovym.  
(Particle track photography)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7

DAROVSKIHKH, Ye. P.

DIL'MAN, V.V.; DAROVSKIHKH, Ye. P.; AEROV, M.E.; AKSEL'ROD, L.S.

Hydraulic resistance of latticed and perforated plates. Khim.  
prom. no.3:156-161 Ap-My '56. (MLRA 9:10)

(Chemical engineering--Apparatus and supplies)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7"

DAROVSKIIA, YE. P.  
AKROV, M.E.; DAROVSKIIA, YE. P.

Efficiency of a grid tray rectifying column under different operating  
conditions. Khim. prom. no. 2:92-94 Mr '57. (MIRA 10:6)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i  
organicheskikh produktov.  
(Plate towers)

AEROV, M.E.; BYSTROVA, T.A.; DAROVSKIKH, Ye.P.; SUM-SHIK, L.Ye.

Tubular plates; hydraulic resistance, effectiveness, and heat transfer  
Khim.prom. no.1:62-66 Ja-F '60. (MIRA 13:?)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i  
organicheskikh produktov.

(Plate towers)

(Heat--Transmission)

DAROVSKIYE, Ye.V.

Improved automatic lubrication pump. Metallurg 5 no.9:  
26-27 S '60. (MIRA 13:8)

1. Makeyevskiy metallurgicheskiy zavod.  
(Rolling mills—Lubrication)  
(Pumping machinery)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7

KAN'SHINA, N.F.; DAROVSKIY, B.P. (Novokuznetsk)

Regeneration of the tubular epithelium of the kidneys in necrotic  
and hydroptic nephrosis. Arkh. pat. 27 no.8:66-69 '65.

(MIRA 18:10)

1. Kurs patologicheskoy anatomi Novokuznetskogo gosudarstvennogo  
instituta dlya usovershenstvovaniya vrachey i Gorodskaya klinicheskaya  
bol'ница No.1.

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7"

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7

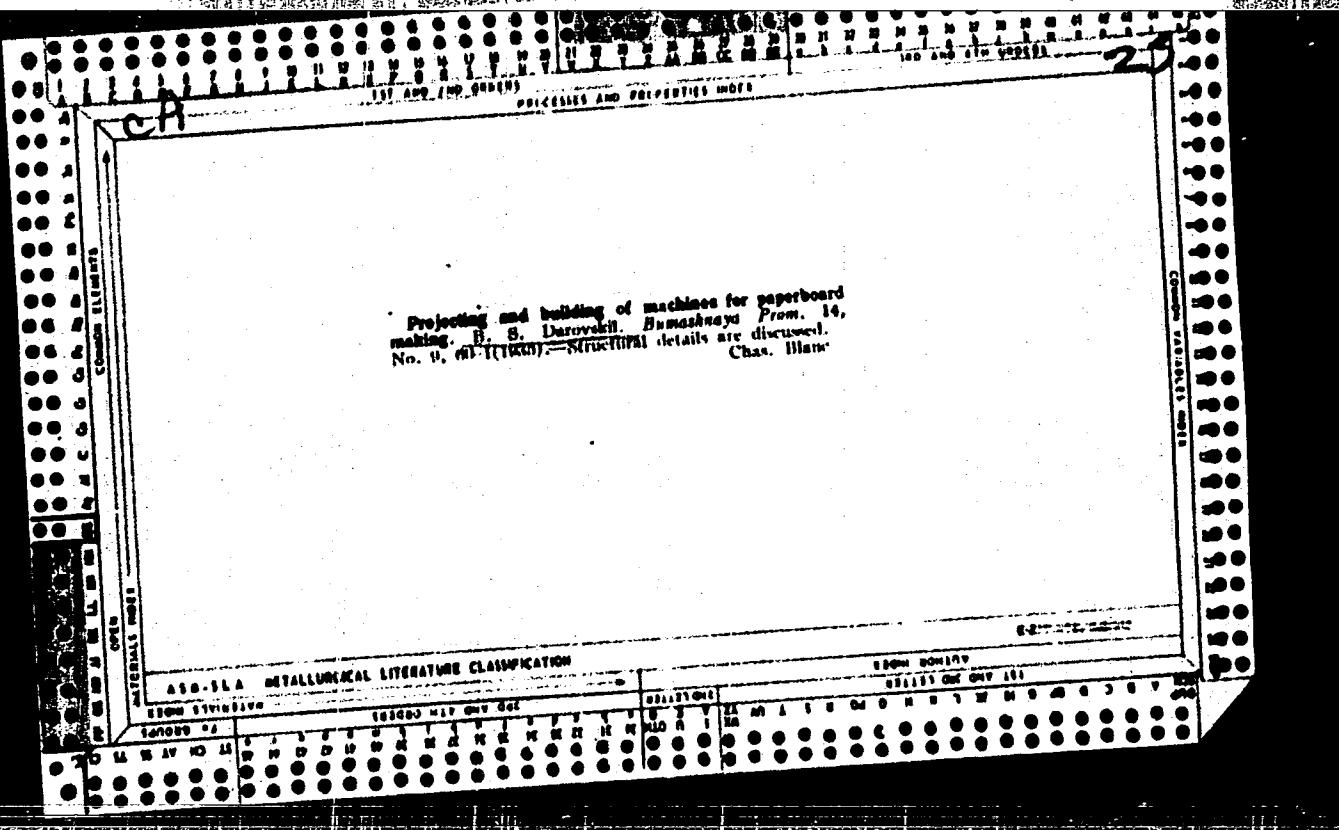
DAROVSKIY, R.P. (Novokuznetsk)

Giant retroperitoneal ganglioneuroma. Arkh. pat., 27 no.10:79-81 '65.  
(MIRA 18:10)

1. Patologoanatomiceskaya otdeleniya Novokuznetskoy gorodskoy  
klinicheskoy bol'nitsy (glavnnyy vrach V.V. Bessonchenko).

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7"



100

PREDICTION AND PREDICTION ERROR

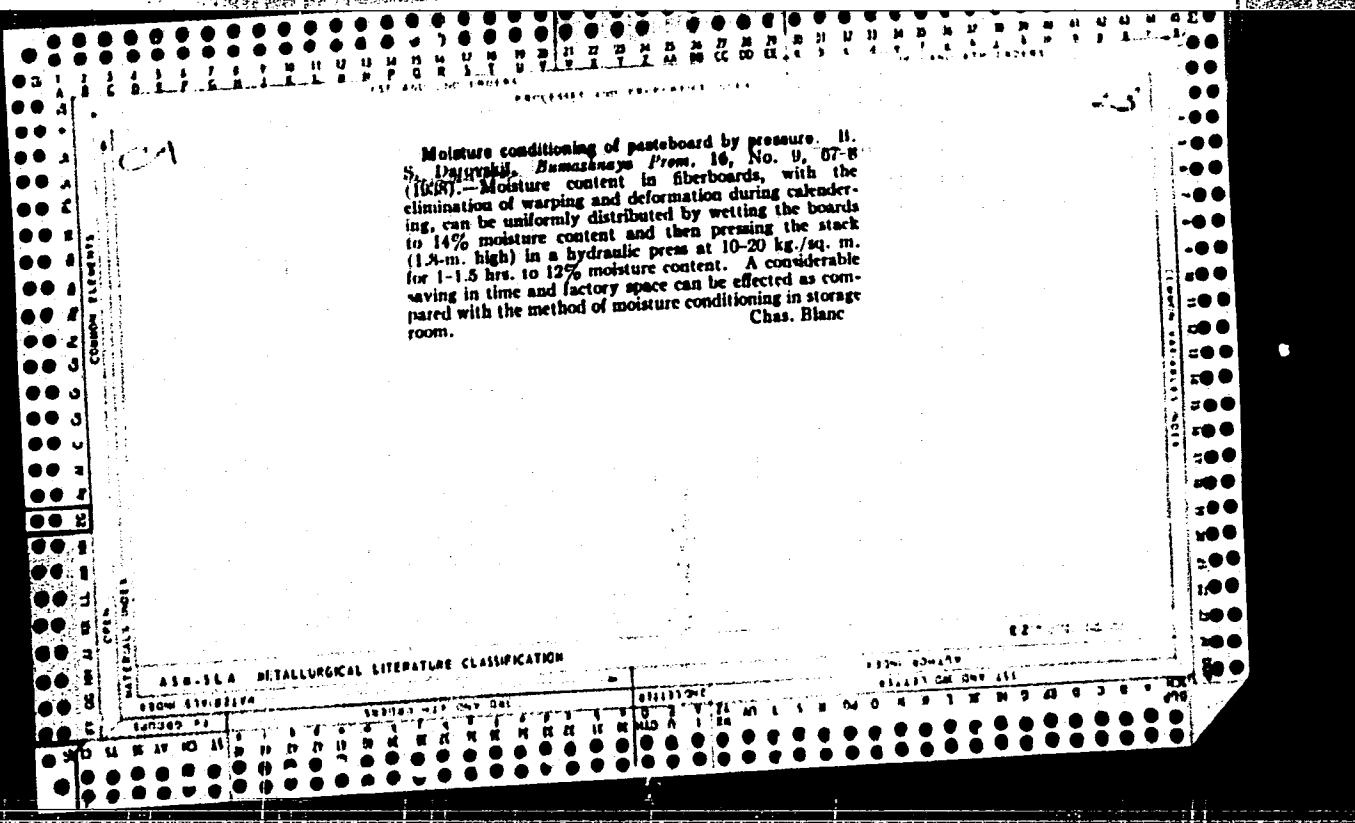
23

**Preparation of bleaching solutions.** B. S. Darovskii. *Russische Frown.*, 15, No. 12, p. 31 (1931). The preparation of bleaching salts from  $\text{Ca}(\text{ClO})_2$ , mala. and  $\text{Ca}$  (cf. "World's Paper Trade Rev.", No. 90, 1930 (1931)) and its use in pulp bleaching are discussed. Chas. Blane

430-114 METALLURGICAL INVESTIGATIONS PLANNING COMMITTEE

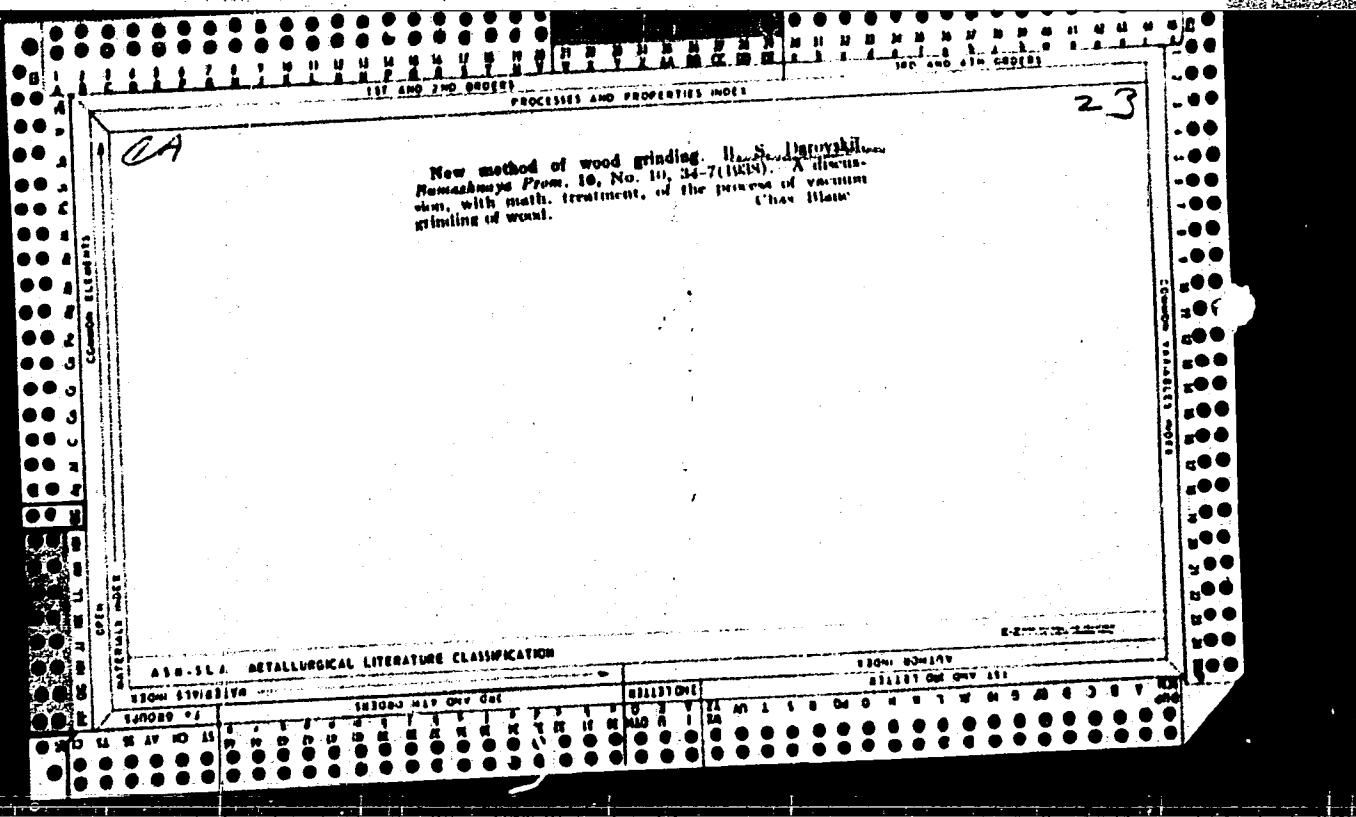
**APPROVED FOR RELEASE: 08/25/2000**

CIA-RDP86-00513R000509720010-7"



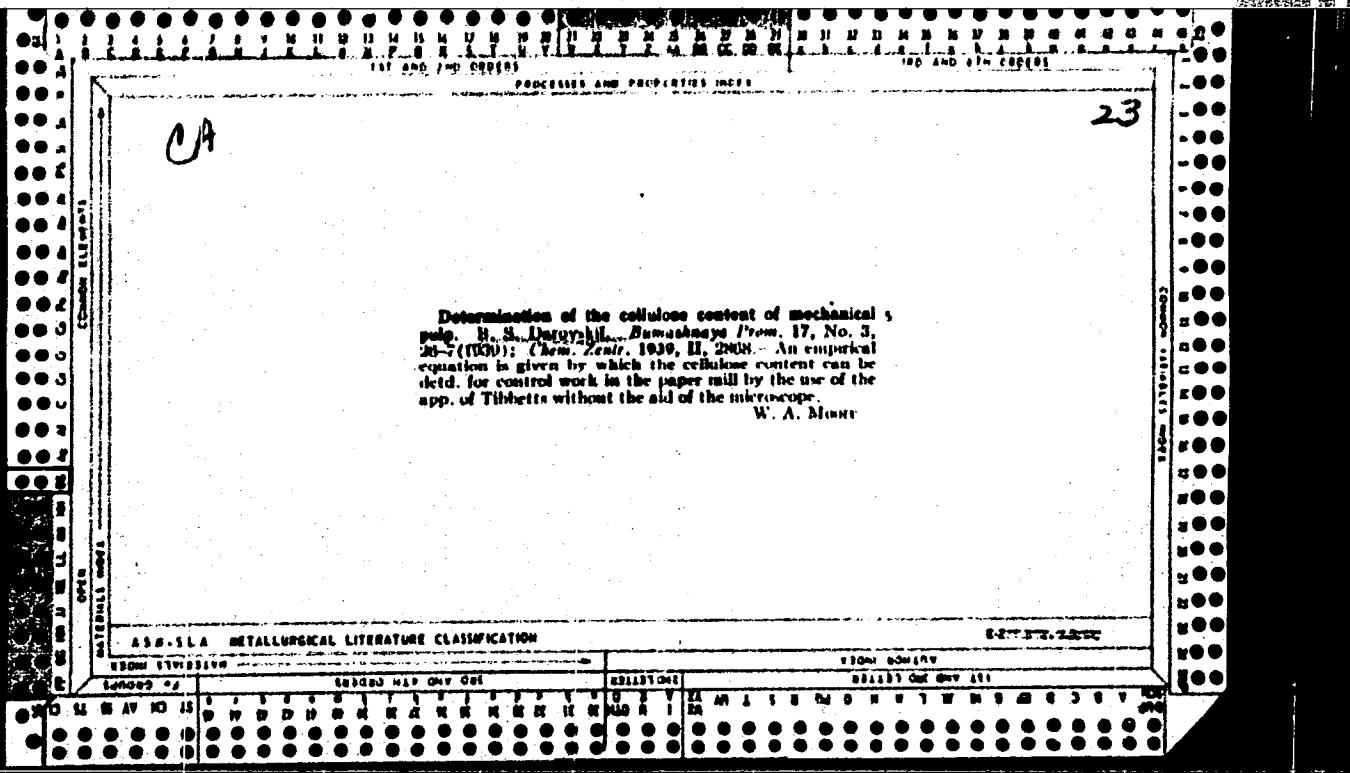
"APPROVED FOR RELEASE: 08/25/2000

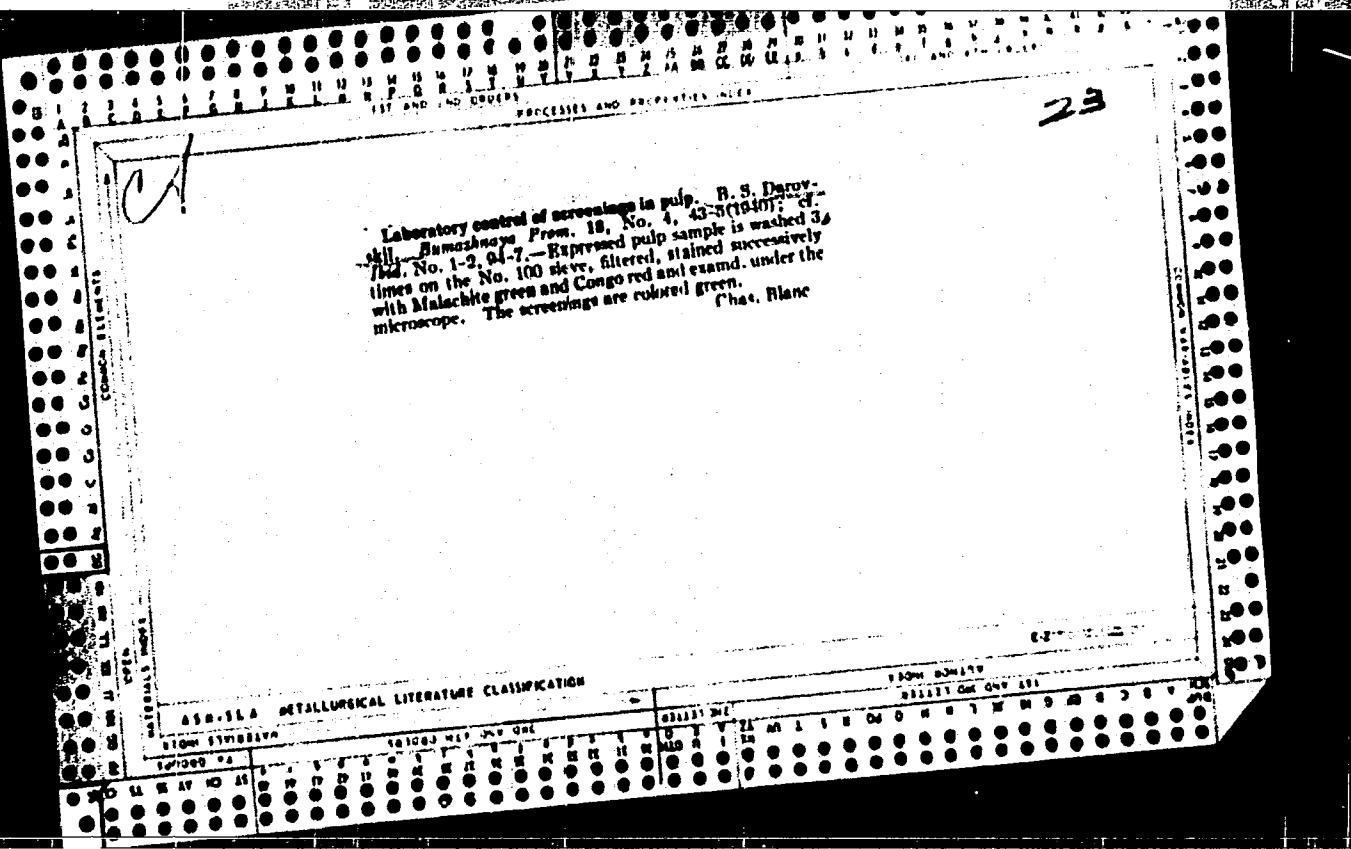
CIA-RDP86-00513R000509720010-7



APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7"



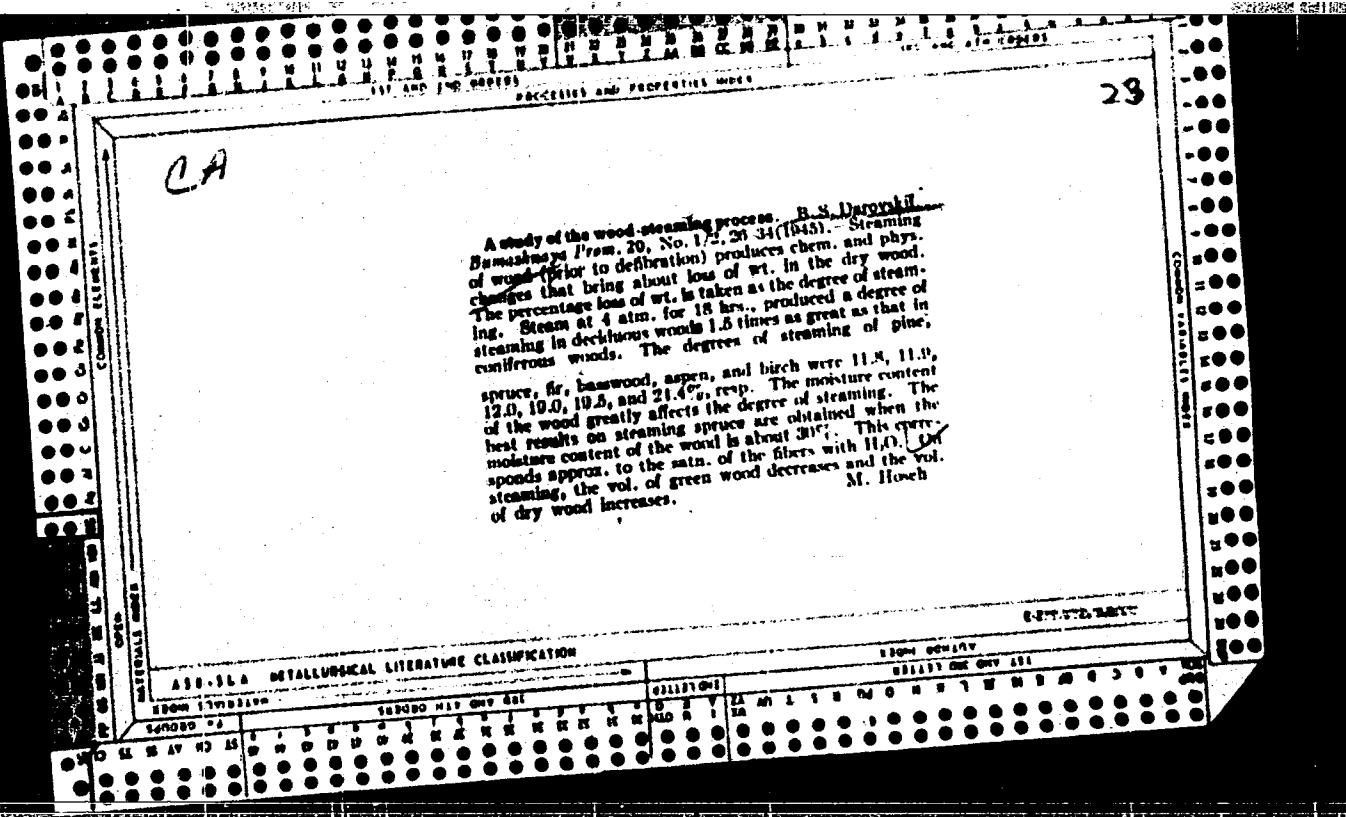


Water and fiber balances for the Kondopoga combine (paper mill), N. S. Iaroslavsk, *Russaknyi Prom.*, 18, No. 7, 15-23 (1940). Water and fiber balances are given for the following units: (1) cellulose plant comprising two

120-cu. m. digesters having a capacity of 60 tons of unbleached cellulose per day, (3) groundwood pulp unit comprising 6 continuous digesters having a capacity of 90 tons of white pulp for newsprint, (3) paper machine 4600 mm. wide with a capacity of 85 tons of newsprint at a speed of 275 m./min., and (4) paper machine 2520 mm. wide with a capacity of 35 tons of wrapper per day at a speed of 120 m./min. The balance revealed an unusually large use of fresh water. Suggestions are given for increasing the use of white water. B. Z. Kamich

~~ABD-11A METALLURGICAL LITERATURE CLASSIFICATION~~

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000509720010-7"



DAROVSKY R. S.

FA 10T5

USSR/Wood Pulp  
Paper, Laminated

Mar/Apr 1947

"Work of Artificial Pulping Stone on Brown Wood  
Mass," B. S. Darovskiy, 5 pp

"Bumazhnaya Promyshlennost'" Vol XXII, No 3

Technical discussion of different types of arti-  
ficial pulping stones. Work of the Cardboard  
Factory imeni Kalinin described. Includes graph  
and tables.

10T5

1. DAROVSKIY, B. S.
2. USSR (600)
4. Paper-Making Machinery
7. Ways of improving cardboard machines. Bum.prom. 27 no. 9, 1952.
  
9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7

DAROVSKIY, B.S., inzhener.

Relation between the type of cardboard making machine and the basic properties of cardboard. Bum.prom. 29 no.1:13-17 Ja-<sup>F</sup> '54.  
(MLRA 7:3)

1. Kartonnaya fabrika "Proletariy."

(Paperboard)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7"

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7

DAROVSKIY, B.S., inshener.

Improving the effectiveness of the pressing-out cardboard in hydraulic presses. Bun.prom. 29 no.8:28 Ag '54.  
(Paperboard) (MLRA 7:9)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509720010-7"

DAROVSKIY, B.S.

DAROVSKIY, B.S., inshener [deceased].

Improved stamping of cardboard products. Bum.prom. 30 no.1:25-27  
Ja '55. (MLRA 8:3)  
(Paper board)

DAROVSKIY, Boris Sergeyevich [deceased]; PRIGOZHIY, S.S., redaktor;  
TAL'CHENKO, N.I., redaktor izdatel'stva; KOLESNIKOVA, A.V.,  
tekhnicheskiy redaktor

[Cardboard manufacture] Proizvodstvo kartona. Moskva, Goslesbum-  
isdat, 1956. 185 p.  
(Paperboard) (MLRA 9:10)

DAROVSKIY, G. F.

AID P - 4506

Subject : USSR/Engineering

Card 1/2 Pub. 11 - 4/12

Authors : Malevskiy, Yu. B. and G. F. Darovskiy

Title : Reproduction of Titanium Replica for Electron-microscopic Examination of Welded Seams.

Periodical : Avtom. svar., 2, 22-26, Mr/Ap 1956

Abstract : The authors present their method of obtaining titanium replica with the second phase particles based on the electrochemical division of phases. Obtaining of a clear, higher quality replica which does not require further treatment or washing was found possible. In contradiction to the opinion of Shigeto Uamaguchi and Tadavuki Nakavama, expressed in "Titanium Replica for Electron Microscopy" (Journal of Applied Physics, v. 24, 5, 1953, 658) the authors state that such a replica-film (of 99.6% clearness) can be used for electron-microscopy because a good titanium film can be detached from the surface of welded seams by means of gelatine. The UEM-100 electron-microscop of

Avtom. svar., 2, 22-26, Mr/Ap 1956

AID P - 4506

Card 2/2 Pub. 11 - 4/12

domestic make was used. Six electron-microphotographs and one sketch. 6 Russian references (1944-1955) and 1 American reference.

Institution : Institute of Electrowelding im. Paton

Submitted : D 16, 1955

MALEVSKIY, Yu.B.; DAROVSKIY, G.F.

Method of obtaining a collodion replica from a fixed microsection  
for electron microscope investigation. Avtom.svar. 10 no.4:48-51  
Jl-Ag '57.  
(MIRA 10:10)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki imeni  
Ye.O.Patona Akademii nauk USSR.  
(Metallography) (Electron microscopy)

AUTHOR:  
TITLE:

MALEVSKIY, Yu.B., DAROVSKIY, G.F.

PERIODICAL:

Method of Investigating a Problem in the Electron Microscope. (Metod issledovaniya zadannogo uchastka v elektronnom mikroskopе, Russian) Zavodskaya Laboratoriya, 1957, Vol 23, № 6, pp 702-704 (U.S.S.R.)

32-6-20/54

ABSTRACT:

It is possible, with the help of an electron microscope, to solve the problems connected with the investigation of the structural properties of a metallographic ground surface. In connection with some problems, as e.g. the investigation of processes of the mechanism of deformation, crystallization, and decay, the applicability of the electron microscope is limited. The method investigated here deals with granular changes in the course of the aging process and the effect of reagents on structural composition. The method is carried out in the laboratory by means of a colloidal cast. On the ground section a certain part is selected for the purpose of microscopic investigation. Next, several soldered places are examined and microhardness is determined. The round surface is rubbed with cottonwool saturated with methylated spirit and then dried with gaseous nitrogen. A drop of 0.5 - 1% colloid amyl acetate is then dropped on to the surface.

Card 1/2

AUTHOR:

Kasatkin, B.S., Karetz, N.L. and Darovskiy, G.F.

SOV-125-58-2-3/11

TITLE:

Fine Structure and Its Effect on the Toughness of Weld Joints  
(Tonkaya struktura i yeyë vliyanije na udarnuyu vyazkost'  
svarnykh shvov)

PERIODICAL:

Avtomacheskaya svarka, 1958, Nr 2, pp 20-29 (USSR)

ABSTRACT:

Experimental investigations of fine structure in low-carbon and low-alloy weld joints were carried out with the use of an electronic microscope, permitting direct observation of the inner structure of the metal grains and revealing some peculiarities which could not be detected by X-ray examinations. The article contains a detailed description of the experiments and of the results obtained which lead to the following conclusions: 1) conditions of the welding process have a substantial effect on the inner structure of grains; 2) increased cooling rates entail higher stresses of II and III order, reduction of size and chemical heterogeneity of blocks of the intragranular structure; 3) slow cooled weld metal is characterized by the most perfect ferrite grain blocks approaching symmetrical shape; 4) the critical temperature of the seam brittleness is determined by the

Card 1/2

SOV-125-58-2-3/11

Fine Structure and Its Effect on the Toughness of Weld Joints

peculiarities of structure and the properties of submicro-zones (blocks) and microzones (grains); 5) inner stresses of II and III order are of a secondary effect, as they influence the plastic deformation process which precedes the formation of microcracks.

There are 2 graphs, 3 tables, 5 micro-photos and 12 references, 10 of which are Soviet, 1 English and 1 German.

ASSOCIATION: Institut elektrosvarki imeni Ye.O. Patona, AN USSR (Institute of Electric Welding imeni Ye.O. Paton, AS UkrSSR)

SUBMITTED: September 10, 1957

1. Welds--Structural analysis

Card 2/2

SOV/125- 59-3-8/13

18(7),24(4)

AUTHOR: Darovskiy, G.F., and Malevskiy, Yu.B.

TITLE: Preparing Carbon-Film for Electron-Microscopy (Poluchi-  
eniye ugol'noy plenki dlya elektronnoy mikroskopii)

PERIODICAL: Avtomaticheskaya svarka, 1959, Vol 12, Nr 3, pp 64-68  
(USSR)

ABSTRACT: The described design is used for vaporizing electrode-graphite in a vacuum for preparing a carbon-film of metal microsection surfaces for electronic microscopic studies. The described apparatus VUP-2 (Photograph 1) consists of two holders for the electrodes and a mechanism for holding the sample. It should be fixed in an angle of  $\alpha = 18 - 30^\circ$  (Fig. 2) and a distance of 5-6 cm from the graphite-electrode tip. After two current impulses films of 250-300 Å. are obtained. Figs. 3a, 3b and 4 show examples of the structure of the welding seams obtained with electronic-microscopic tests. It was established that the loosening of the film from the metal by electrolyzing is the best method existing. The

Card 1/2

SOV/125-59 -3-8/13

Preparing Carbon-Film for Electron-Microscopy

electrolyte is a nitric acid 10% solution in alcohol (3). There are 4 photographs, 1 diagram and 5 references, 3 of which are Soviet and 2 English.

ASSOCIATION: Ordena trudovogo krasnogo znameni institut elekrosvarki im. Ye. O. Patona AN USSR (Order of the Red Banner of Labor Institute for Electro-Welding im. Ye. O. Paton, AS UkrSSR)

SUBMITTED: November 24, 1958

Card 2/2

18.9200

67666

SOV/126-8-6-14/24

AUTHORS: Kasatkin, B.S. and Darovskiy, G.F.

TITLE: Fine Structure of the Intergranular Transition Zones of Technical Iron

PERIODICAL: Fizika metallov i metallovedeniye, 1959, Vol 8, Nr 6, pp 881-884 (USSR)

ABSTRACT: Electron microscopic investigations were carried out on specimens of hot-rolled technical iron which had been subjected to forging and annealing (heating to 1100°C, soaking for 3 hours followed by furnace cooling). Microsections were prepared by electrolytic polishing and etching as described by Kasatkin (Ref 4). The electron microscopic investigations were carried out with the aid of collodion films tinted with chromium, and carbon films. The advantage of the latter is that they enable a sufficiently contrasted picture of the fine structure to be reproduced without supplementary tinting. This is particularly important for the study of the characteristics of a fine crystal structure at large magnifications. Fig 1 shows an electron photomicrograph of two neighbouring grains and the transition zone between them. Fig 2 and 3 show the transition zone ✓

Card 1/4

6766  
SOV/126-8-6-14/24

Fine Structure of the Intergranular Transition Zones of Technical Iron

between grains of comparatively small disorientation relative to each other. The width of the zone is between 0.08 and 0.16  $\mu$ . The grains consist of plastic blocks, the boundaries of which represent chains of etch pits. Fig 4 shows an electron photomicrograph of the fine structure of a relatively wide (approximately 0.8  $\mu$ ) transition zone between two differently orientated grains. Fig 3 shows the fine structure of portions of a few neighbouring grains and the transition zones between them. The electron microscopic investigations agree in the authors' opinion in a certain measure with the model of semi-ordered intercrystalline transition zone suggested by Arkharov and in addition bring out certain details of this model more accurately. The semi-ordered fine structure of the intergranular transition zone in technical iron is made up of blocks. The presence in the grains of blocks outlined by series of dislocations creates favourable conditions for the formation of a block structure in the transition zone and a smooth crystalline contact of this zone with the grains. From the point of view of the semi-ordered intercrystalline

Card 2/4

67666

SOV/126-8-6-14/24

Fine Structure of the Intergranular Transition Zones of Technical Iron

transition zone model the blocks represent regions having an ordered structure and the block boundaries are layers with a distorted structure. With increased distance from the grains the closeness of the dislocation rows in the transition zone and the dislocation density increase. As suggested by the model, the greatest disturbance in the crystalline order of distribution of atoms occurs in the middle portion of the transition zones. The width of the transition zone and the increase in closeness of the dislocation row net are determined by the orientation relative to each other of neighbouring grains. The greater the disorientation between adjacent grains the wider will be the intergranular transition zone and the greater will be the difference in block size and dislocation density between the peripheral and central portions of this zone. As the formation of intergranular transition zones takes place at high temperatures and appears to be accompanied by plastic deformation (Ref 5 and 6) it must be assumed that the fine structure of this zone is further distorted by polygonization which at high temperatures takes place at *y*

Card 3/4

67666  
SOV/126-8-6-14/24

Fine Structure of the Intergranular Transition Zones of Technical Iron

a considerable rate. There are 4 figures and  
6 references, 2 of which are Soviet, 3 English and 1 a  
translation from English into Russian.

ASSOCIATION: Institut elektrosvarki im Ye.O.Patona AN USSR  
(Institute of Electric Welding imeniYe.O.Paton,  
AS UkrSSR) *H*

SUBMITTED: March 31, 1959, initially  
June 4, 1959, after revision

Card 4/4

18(3,7)

05288  
SOV/170-59-7-19/20

AUTHORS: Kasatkin, B.S., Darovskiy, G.F.

TITLE: The Fine Structure of Twin Interlayers in Commercial Iron

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1959, Nr 7, pp 106 - 109 (USSR)

ABSTRACT: This article presents investigation results of the fine structure of twin interlayers obtained in the process of brittle fracturing of commercial iron. The study was carried out by means of an electronic microscope, and microphotographs obtained are presented in Figures 1-4. A characteristic feature of the structure of a twinning interlayer is the presence of a narrow central band, approximately  $0.5 \mu$  thick which passes through the entire twinning interlayer. The formation of this twin is a first stage in the mechanical twinning process which is a multistage one. Along the twin there are individual depressions which have a fine-grained structure with cells of rectangular shape. They are located in a deformed zone resulting from fault formation and having a width of the order of 2.2 microns. Sometimes deformation bands have fir-tree shape and uniform thickness along their whole length. It is assumed that the formation of deformed zones begins with

Card 1/2

05288

The Fine Structure of Twin Interlayers in Commercial Iron

SOV/170-59-7-19/20

the formation of unit local faults, and a local fault is formed as a result of discharging accumulations of dislocations at some obstacle in the twinning zone. Under the further action of external forces, causing the deformation by twinning, the number of local faults increases, and a series of consecutive faults, partially overlapping each other, is formed.

There are: 4 microphotos and 5 references, 3 of which are Soviet, 1 English and 1 unidentified.

ASSOCIATION: Institut elektrosvarki im. Ye.O. Patona AN USSR (Institute of Electric Welding imeni Ye.O. Paton of the AS UkrSSR), Kiyev.

Card 2/2

18(5)

SOV/125-59-9-2/16

AUTHOR: Kasatkin, B.S., Candidate of Technical Sciences and  
Darovskiy, G.F., Engineer

TITLE: Sub-Structure of Low-Carbon Welds

PERIODICAL: Avtomaticheskaya svarka, 1959, Nr 9, pp 13-16 (USSR)

ABSTRACT: This article deals with the question of the influence of sub-structure on the physico-mechanical properties of iron and steel. In this connection, the authors refer to the works of Academician G.P. Kurdyumov and his co-workers V.A. Il'mina and V.M. Golubkov. Research of welds was carried out on 20 mm thick testpieces welded under powder flux by means of electrode wire containing 0.05% of carbon. On the whole, research of low-carbon welds was performed by an electronic microscope with application of chrome-shaded colloid films; it was disclosed that ferrite grains in welds have both, the micro- and macro substructures. The first is shown in Fig 1, the second - in Fig 5. The veining in ferrite is shown in Fig 2 (optical microscope), and in Fig 3

Card 1/2

Sub-Structure of Low-Carbon Welds

SOV/125-59-9-2/16

(electronic microscope). Most researchers assume that the primary cause of the veining  $\alpha$ - net ferrite formation is a result of plastic deformation developed in the process of transformation  $\gamma \rightarrow \alpha$ . There are grounds for believing that the plastic deformation caused by heating during the welding should be its intensity surpass the deformation connected with the transformation  $\delta \rightarrow \alpha$ . Thus, the conditions of crystallization and of the subsequent cooling of metal, which exert a strong influence on plastic deformation, polygonization and diffusion of admixtures, determine the substructural development in ferrite grains. In Fig 4, a micro-photograph of a plastically deformed ferrite grain, showing veins of  $\alpha$ -net and a series of slide-zones, is given. There are 1 diagram, 6 photographs and 14 references, 10 of which are Soviet and 4 English.

SUBMITTED: March 2, 1959

Card 2/2

MALEVSKIY, Yusef Boleslavovich; GRABIN, Vladimir Fedorovich; DEROVSKIY,  
Georgiy Fedos'yevich; PARFESSA, Galina Ivanovna; ROSSOSHINSKIY,  
A.A., kand.tekhn.nauk, retsenzent; MAKAR, A.M., kand.tekhn.nauk,  
red.; RIKHERG, D.B., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn.red.

[Atlas of the micro- and macrostructure of welded joints] Atlas  
makro- i mikrostruktur svarnykh soedinenii. Pod red. A.M. Makara.  
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1961.  
118 p.

(Welding--Testing) (Metallography)

(MIRA 15:2)

DAROVSKIY, G.F.

Two-stage method of preparing silver-coal films for electron  
microscopy. Avtom.svar. 15 no.5:93-94 My '62. (MIRA 15:4)  
(Metallic films) (Electron microscopy)

DAROVSKIY, Ye.

KHIRIN, N.D., inzhener; DAROVSKIY, Ye. inzhener.

Maintenance and operation of centrifugal scrubbers produced by the  
All-Union Heat Engineering Institute. Teplotergetika 4 no.10:57-60  
O '57.  
(MIRA 10:9)

1. Yuzhnoye otdeleniye Kontora po organizatsii i ratsionalizatsii  
rayonnykh elektrostantsiy i seti.  
(Plate towers)

VESELOV, V.T., inzh.; DAROVSKIY, Ye.T., inzh.; LOZINSKIY, R.P., inzh.;  
KHIRIN, N.D., inzh.

Adjustment and testing of type MP-VTL ash collectors with a  
4,500 mm. diameter. Teploenergetika 9 no.11:41-45 N '62. (MIRA 15:10)

1. Yuzhnoye otdeleniye Gosudarstvennogo trests po organizatsii i  
ratsionalizatsii rayonnykh elekrostantsiy i setey.  
(Fly ash)